

FORM PTO-1449  
(REV. 7-80)

71477 U.S. PTO

ATTY. DOCKET NO.  
LKS95-10SERIAL NO.  
08/700INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

02/13/97

APPLICANT  
P.D. Ponath, et al.

MAR 03 1997

FILING DATE  
August 15, 1996GROUP  
1804 1876 1644

## U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
EL	AA	5,558,864	24 September 1996	Bendig et al.	424	133.1	
EL	AB	5,225,539	6 July 1993	Winter	530	387.3	
EL	AC	5,585,089	17 December 1996	Queen et al.	424	133.1	

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EL	AL	WO 93/02191	4 February 1993	PCT WO			
EL	AM	WO 91/09967	11 July 1991	PCT WO			

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EL	AR	Lazarovits, A.I. and Karsh J., " $\alpha 4\beta 7$ integrin in rheumatoid arthritis," In <i>Leucocyte Typing V - White Cell Differentiation Antigens</i> , S.F. Schlossman et al., eds., (Oxford: Oxford University), pp. 1686, 1687 (1995).					
EL	AS	Lazarovits, A.I., et al., "Lymphocyte Activation Antigens - I. A Monoclonal Antibody, Anti-Act I, Defines a New Late Lymphocyte Activation Antigen," <i>The Journal of Immunology</i> , 133:1857-1862 (1984).					
EL	AT	Erle, D.J., et al., "Expression and Function of the MAdCAM-1 Receptor, Integrin $\alpha 4\beta 7$ , on Human Leukocytes," <i>The Journal of Immunology</i> , 153:517-528 (1994).					
EL	AU	Postigo, A.A., et al., " $\alpha 4\beta 7$ Integrin Mediates B Cell Binding to Fibronectin and Vascular Cell Adhesion Molecule-1," <i>The Journal of Immunology</i> , 151:2471-2483 (1993).					
EL	AV	Lazarovits, A.I. and Karsh, J., "Differential Expression in Rheumatoid Synovium and Synovial Fluid of $\alpha 4\beta 7$ Integrin - A Novel Receptor for Fibronectin and Vascular Cell Adhesion Molecule-1," <i>The Journal of Immunology</i> , 151:6482-6489 (1993).					
EL	AW	Schweighoffer, T., et al., "Selective Expression of Integrin $\alpha 4\beta 7$ on a Subset of Human CD4 <sup>+</sup> Memory T Cells with Hallmarks of Gut-Trophism," <i>The Journal of Immunology</i> , 151:717-729 (1993).					
EL	AX	Riechmann, L., et al., "Reshaping human antibodies for therapy," <i>Nature</i> , 332:323-327 (1988).					
EL	AY	Bendig, M.M., "Humanization of Rodent Monoclonal Antibodies by CDR Grafting," <i>METHODS: A Companion to Methods in Enzymology</i> , 8:83-93 (1995).					
EL	AZ	Page, M.J. and Sydenham, M.A., "High Level Expression of the Humanized Monoclonal Antibody Campath-1H in Chinese Hamster Ovary Cells," <i>Bio/Technology</i> , 9:64-68 (1991).					

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Erdogan

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ATTY. DOCKET NO.  
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08/700,737APPLICANT  
P.D. Ponath, et al.FILING DATE  
August 15, 1996GROUP  
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## U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

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AR2	Bednarczyk, J.L., et al., "Identification of a Combinatorial Epitope Expressed by the Integrin $\alpha 4 \beta 1$ Heterodimer Involved in the Regulation of Cell Adhesion," <i>J. Biol. Chem.</i> , 269:8348-8354 (1994).
AS2	Yacyshyn, B.R., et al., "Crohn's Disease, Ulcerative Colitis, and Normal Intestinal Lymphocytes Express Integrins in Dissimilar Patterns," <i>Gastroenterology</i> , 107:1364-1371 (1994).
AT2	Pals, S.T., et al., "Expression of the Mucosal Homing Receptor $\alpha 4 \beta 7$ in Malignant Lymphomatous Polyposis of the Intestine," <i>Gastroenterology</i> , 107:1519-1523 (1994).
AU2	Teague, T.K., et al., "Integrin $\alpha 4 \beta 7$ Co-Stimulation of Human Peripheral Blood T Cell Proliferation," <i>Cell Ad. Comm.</i> , 2:539-547 (1994).
AV2	Tiisala, S., et al., " $\alpha E \beta 7$ and $\alpha 4 \beta 7$ integrins associated with intraepithelial and mucosal homing, are expressed on macrophages," <i>Eur. J. Immunol.</i> , 25:411-417 (1995).
AW2	Wan, H.C., et al., "Expression of $\alpha 4 \beta 7$ Integrin on Eosinophils and Modulation of $\alpha 4$ -Integrin-Mediated Eosinophil Adhesion via CD4," <i>Int. Arch. Allergy Immunol.</i> , 107:343-344 (1995).

EXAMINER

*Elizabeth Robinson*

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(REV. 7-1-94)INFORMATION DISCLOSURE CITATION  
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1997

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ATTY. DOCKET NO.-  
LKS95-10SERIAL NO.  
08/700,737

APPLICANTS Paul D. Ponath, et al.

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EL	AD	5,403,919	04-APR-95	Butcher, E.C.	530	388.22	03 MAR 93
EL	AE	4,816,567	28-MAR-89	Cabilly et al.	530	387	08 APR 83
	AF						
	AG						
	AH						
	AI						
	AJ						

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EL	AN	0 303 463 B1	30-11-94	EPO	-	-	
EL	AO	94/13312	23-06-94	PCT WO	-	-	
EL	AP	90/07321	12-07-90	PCT WO	-	-	
EL	AQ	95/19790	27-07-95	PCT WO	-	-	
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EL	AZ2	Yang, Y., et al., "Construction and Adhesive Properties of a Soluble MadCAM-1-Fc Chimera Expressed in a Baculovirus System: Phylogenetic Conservation of Receptor-Ligand Interaction", Scand. J. Immunol., 42:235-247 (1995).
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EXAMINER

Judith Robison

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APPLICANTS Paul D. Ponath, et al.

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## U.S. PATENT DOCUMENTS

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ER	AS3	Podolsky, D.K., et al., "Attenuation of Colitis in the Cotton-top Tamarin by Anti- $\alpha 4$ Integrin Monoclonal Antibody", J. Clin. Invest., 92:372-380 (1993).
ER	AT3	Podolsky, D.K., "Inflammatory Bowel Disease (First of Two Parts)", The New England J. of Med., 325(13):928-937 (1991).
ER	AU3	Podolsky, D.K., "Inflammatory Bowel Disease (Second of Two Parts)", The New England J. of Med., 325(14):1008-1016 (1991).
ER	AV3	Springer, T.A., "The Sensation and Regulation of Interactions with the Extracellular Environment: The Cell Biology of Lymphocyte Adhesion Receptors", Annu. Rev. Cell Biol., 6:359-402 (1990).
ER	AW3	Picker, L.J. and Butcher, E.C., "Physiological and Molecular Mechanisms of Lymphocyte Homing", Annu. Rev. Immunol., 10:561-591 (1992).
ER	AX3	Hynes, R.O., "Integrins: Versatility, Modulation, and Signaling in Cell Adhesion", Cell, 69:11-25 (1992).
ER	AY3	Berlin, C., et al., " $\alpha 4 \beta 7$ Integrin Mediates Lymphocyte Binding to the Mucosal Vascular Addressin MADCAM-1", Cell, 74:185-195 (1993).
ER	AZ3	Springer, T.A., "Traffic Signals for Lymphocyte Recirculation and Leukocyte Emigration: The Multistep Paradigm", Cell, 76:301-314 (1994).
ER	AR4	Briskin, M.J., et al., "MADCAM-1 Has Homology to Immunoglobulin and Mucin-Like Adhesion Receptors and to IgA1", Nature, 363:461-463 (1993).
ER	AS4	Salmi, M., et al., "Aberrant Binding of Lamina Propria Lymphocytes to Vascular Endothelium in Inflammatory Bowel Diseases", Gastroenterology, 106:596-605 (1994).

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Evelyn Rabin

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APPLICANTS Paul D. Ponath, et al.

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August 15, 1996

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gr	AT4	Silber, A., et al., "Recruitment of Lymphocytes during Cutaneous Delayed Hypersensitivity in Nonhuman Primates is Dependent on E-Selectin and Vascular Cell Adhesion Molecule 1", <i>J. Clin. Invest.</i> , 93:1554-1563 (1994).
gr	AU4	Salmi, M., et al., "Dual Binding Capacity of Mucosal Immunoblasts to Mucosal and Synovial Endothelium in Humans: Dissection of the Molecular Mechanisms", <i>J. Exp. Med.</i> , 181:137-149 (1995).
gr	AV4	Andrew, D.P. et al., "Distinct but Overlapping Epitopes Are Involved in $\alpha_4\beta_7$ -Mediated Adhesion to Vascular Cell Adhesion Molecule-1, Mucosal Addressin-1, Fibronectin, and Lymphocyte Aggregation", <i>J. of Immunology</i> , 153:3847-3861 (1994).
gr	AW4	Osband, M.E. and Ross, Susan, "Problems in the Investigational Study and Clinical Use of Cancer Immunotherapy", <i>Immunol. Today</i> , 11(6):103-105 (1990).
gr	AX4	Waldmann, T.A., "Monoclonal Antibodies in Diagnosis and Therapy", <i>Science</i> , 252:1657-1662 (1991).
gr	AY4	Harris, W.J. and Emery, S., "Therapeutic Antibodies-The Coming of Age", <i>TIBTECH</i> , 11:42-44 (1993).

EXAMINER

*Evelyn Rabeni*

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LKS95-10SERIAL NO.  
08/700,737APPLICANTS Paul D. Ponath, Douglas J.  
Ringler, S. Tarran Jones, Walter Newman,  
José Saldanha and Mary M. RinglerFILING DATE  
August 15, 1996GROUP  
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## U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
135	ER	AN2	WO 94/17828	18-AUG-94	PCT	—	
	ER	AO2	WO 97/18838	29-MAY-97	PCT	—	
	ER	AP2	JP 63 03990	01-NOV-94	Japan	—	X

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*Eden Rabin*

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Sheet 1 of 1

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APPLICATION NO.  
08/700,737

PTO-1449 REPRODUCED

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

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ATTORNEY DOCKET NO.  
LKS95-10APPLICANTS  
Paul D. Ponath, Douglas J. Ringler, S. Tarran  
Jones, Walter Newman, José Saldanha and Mary  
M. BendigFILING DATE  
August 15, 1996GROUP  
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U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
AI		5,888,507	30-MAR-99	Burkly	424	130.1	22-MAY-95

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1644

## PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
<i>M</i>	AG	5,840,299	24-Nov-98	Bendig, et al.	424	133.1	21-Nov-95
<i>N</i>	AH	5,871,734	16-Feb-99	Lobb, et al.	424	144.1	21-Mar-97

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES	NO
	AL							
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ATTORNEY DOCKET NO.  
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(LKS95-10)APPLICATION NO.  
08/700,737INFORMATION DISCLOSURE CITATION  
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January 18, 2000

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## APPLICANT

Paul D. Ponath, Douglas J. Ringler, S.  
Tarran Jones, Walter Newman, José Saldanha  
and Mary M. BendigFILING DATE  
August 15, 1996GROUP  
1644

## U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
ms	AJ	5,932,214	03-AUG-99	Lobb et al.	424	144.1	
	AK	4,816,397	28-MAR-89	Boss et al.	435	68	
	AA2	5,693,761	02-DEC-97	Queen et al.	536	23.53	
	AB2	5,693,762	02-DEC-97	Queen et al.	530	387.3	
	AC2	5,859,205	12-JAN-99	Adair et al.	530	387.3	
	AD2	5,821,337	13-OCT-98	Carter et al.	530	387.3	
	AE2	5,624,821	29-APR-97	Winter et al.	435	69.6	
	AF2	5,648,260	15-JUL-97	Winter et al.	435	252.3	
	AG2						
	AH2						
	AI2						

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ms	AQ2	WO 90/07861	26-JUL-90	PCT WO			
	AL3	WO 88/07089	22-SEP-88	PCT WO			
	AM3	WO 94/29351	22-DEC-94	PCT W			

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ms	AT5	Yuan, Q. et al., Corrigenda, "Cloning and Sequence Analysis of a Novel $\beta_2$ -related Integrin Transcript from T Lymphocytes: Homology of Integrin Cysteine-rich Repeats to Domain III of Laminin B Chains", <i>Int'l. Immunol.</i> , 3(12):1373-1374 (1991).

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